

Seyed Amirasad Fatemi

Assistant Professor

Faculty : Engineering

Departments : Mining Engineering

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Education

- B.Sc, Mining Engineering- Rock Mechanics,Amirkabir University of Technology - 1999
- MS, Mining Engineering,Tarbiat Modares University - 2002
- PhD, Mining Engineering,Tarbiat Modares University - 2016
- PhD, Mining Engineering,Tarbiat Modares University - 2016

Courses

1. Strength of Materials
2. Procedure and Presentation of Research
3. Engineering Economy
4. Principale of Rock Mechanics
5. Laboratory of Rock Mechanics
6. Mechanics of Materials
7. Ground Control and Support
8. Soil Mechanics
9. Shaft and underground excavation
10. Structural Geology

Journals Papers

2026

1. Slope stability analysis of Sefidabeh antimony open-pit walls

Mohamad Javad Azinfar, Seyed Amirasad Fatemi, Soheil Zaremotlagh

Journal of Analytical and Numerical Methods in Mining Engineering Volume: (16) 39 - 48

2. Experimental shear test and Numerical investigation of the mechanical behavior of hollow plate rock-like materials with pre-cracks

Mohamad Javad Azinfar, Vahab Sarfarazi, Seyed Amirasad Fatemi, Saeid Aghighi Ghafoor

Geomechanics and Engineering Volume: (44) 427 - 456

2025

3. Modeling and Analysis of Joint Systems Using a Combined and Multi-Stage Clustering Approach: A Case Study of the Lucho Granite Mass, Zahedan

Soheil Zaremotlagh, Seyed Amirasad Fatemi, Mohamad Javad Azinfar

Journal of Analytical and Numerical Methods in Mining Engineering Volume: (15) 49 - 64

2024

4. The role of structural joint studies in design of economic extraction and stability analysis of rock face of decorative stone mines

Seyed Amirasad Fatemi, Mohamad Javad Azinfar, Soheil Zaremotlagh, Amin Chamani

Volume: (17) 47 - 61

2022

5. Comparing the capabilities and efficiency of different methods in predicting TBM penetration rate and suggesting the best method

Seyed Amirasad Fatemi, Morteza Ahmadi, Mohamad Javad Azinfar, Amin Chamani

Volume: (6) 31 - 42

2021

6. A new peak shear strength criterion of three-dimensional rock joints considering the scale effects

Mohamad Javad Azinfar, Abdolhadi Ghazvinian, Seyed Amirasad Fatemi

Arabian Journal of Geosciences Volume: (14) 936-1 - 936-12

2017

7. Presentation of a classification system to predict the penetration rate of tunnel borning machines

Seyed Amirasad Fatemi, morteza ahmadi, jamal rostami

Volume: (12) 59 - 69

2016

8. Evaluation of TBM performance prediction models and sensitivity analysis of input parameters

Seyed Amirasad Fatemi, ,

Bulletin of Engineering Geology and the Environment Volume: (75) 1 - 13

Conferences Papers

2025

1. The effect of aggregate quality and type on mechanical properties of concrete - case study of concrete production workshops in Kambozia industrial town, Zahedan

13th Iranian Mining Engineering Conference and 8th International Mine Mining Industries Congress

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar

2. Slope stability analysis in Sefidabe open pit antimony mine by using the Slope Mass Rating (SMR)

13th Iranian Mining Engineering Conference and 8th International Mine Mining Industries Congress

Mohamad Javad Azinfar, Seyed Amirasad Fatemi, Soheil Zaremotlagh

3. A Review of Antimony Ore Processing Methods in Sistan and Baluchestan Province

the 4th national conference on the application of experimental and numerical methods in chemical and mineral industries

Soheil Zaremotlagh, Seyed Amirasad Fatemi, Mohamad Javad Azinfar

4. Potentials and challenges of using Artificial Intelligence in geosciences: case study on its application in predictive modeling

International Conference on Artificial Intelligence and Related Technologies

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar

2024

5. Investigating geological structural breaks as an effective parameter on the economic extraction of decorative stones

9th National Conference on Tectonics and Structural Geology of Iran

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar

6. Studies of structural joints for optimal design of exploitation method and kinematic analysis of mine walls in Zahedan granitoid mass

9th National Conference on Tectonics and Structural Geology of Iran

Soheil Zaremotlagh, Mohamad Javad Azinfar, Seyed Amirasad Fatemi

2023

7. Investigating the geochemical characteristics of elements in Sefidabeh antimony deposit by analyzing exploration data

30th symposium of crystallography and mineralogy of Iran

Roshanak Maleki, Soheil Zaremotlagh, Seyed Amirasad Fatemi, Mahmoud Reza Rahmatian

8. Linear Finite Element Analyses of Stresses Redistribution and Ground Subsidence due to Cavern Excavation in Hard Rocks for Crude Oil Storage

4th National Petroleum Geomechanics Conference, Innovation and Technology

Amin Chamani, Vamegh Rasouli, Seyed Amirasad Fatemi, Seyed Yousef Ahmadi Brooghani

2022

9. Investigation of the effect of joint dimensions in several criteria for estimating the amount of joint degradation in direct shear test

10th Iranian Mining Engineering Conference

Mohamad Javad Azinfar, Seyed Amirasad Fatemi, Abdolhadi Ghazvinian, Soheil Zaremotlagh

10. Determining the direction of the mining face for the optimal extraction of blocks according to the discontinuities modeling by 3DEC software (Case study of Darenjal marble quarry)

10th Iranian Mining Engineering Conference

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar, Amin Chamani

11. The rock slope stability analysis of different variants for rock face alignment (Case study of Darenjal marble quarry)

10th Iranian Mining Engineering Conference

Chamani Amin, Seyed Amirasad Fatemi

2021

12. Determining the usage value of building stones based on the values of geomechanical parameters and relevant standards by using multivariate decision algorithm

9th Iranian Mining Engineering Conference and 6th International Mine Mining Industries Congress

Moslem Borhani, Hosein Noferesti, Seyed Amirasad Fatemi

2020

13. Using Support Vector Machine to Predict Tunnel Boring Machine (TBM) Penetration Rate

8th Iranian Mining Engineering Conference

Seyed Amirasad Fatemi, Morteza Ahmadi, Mohamad Javad Azinfar

2019

14. Providing the shear strength of the rock joint with regard to the scale effect

13th Iranian Tunneling Conference

Mohamad Javad Azinfar, Seyed Amirasad Fatemi, Abdolhadi Ghazvinian

15. Investigating of the scale effect on the joint surface damage in direct shear test

13th Iranian Tunneling Conference

Mohamad Javad Azinfar, Seyed Amirasad Fatemi

16. Investigating the effect of joint orientation on the TBM penetration rate by using different parameters and the relation of each parameter

13th Iranian tunneling Conference

Seyed Amirasad Fatemi, Amin Chamani

2018

17. Identification of Gem Demand Patterns by using Data Mining Techniques

5th National Symposium of Gemology and Crystallography of Iran

Seyed Amirasad Fatemi, Samira Noferesti

18. Sellecting effective ground charactristics on the TBM performance and proposing a prediction model

Fifth International Mine and Mining Industries Congress

Seyyed Amirasad Fatemi

19. Sellecting effective ground charactristics on the TBM performance and proposing a prediction model

Fifth International Mine and Mining Industrial Congress

Seyed Amirasad Fatemi, Morteza Ahmadi, Jamal Rostami

2017

20. THE EFFECT OF ROCK FRACTURE TOUGHNESS AND BRITTLENESS ON TBM PENETRATION RATE

6th Iranian Rock Mechanics Conference (IRMC6

Seyed Amirasad Fatemi,

21. A new approach for the prediction of TBM penetration rate based on Particle Swarm Optimization (PSO)

World Tunnel Congress 2017

Seyed Amirasad Fatemi, jamal rostami, Samira Noferesti

2014

22. ASSESSING THE ACCURACY OF MODELS TO PREDICT THE TBM PENETRATION RATE IN THE GOLAB WATER CONVEYANCE TUNNEL

5th Iranian Rock Mechanics Conference

Seyed Amirasad Fatemi, Morteza Ahmadi, Jamal Rostami, ,

2011

23. CRITICAL FAILURE SURFACE DETERMINING IN A 2D SLOPE STABILITY ANALYSIS BY ELITISM GENETIC ALGORITHM

4th Iranian Rock Mechanics Conference (IRMC4)

Seyed Amirasad Fatemi, Samira Noferesti,

2007

24. Investigation of sliding reasons and statically and dynamically analysis of Razg landslide

3rd Iranian Rock Mechanics Conference

Seyed Amirasad Fatemi, Seyed Yousef Ahmadi, Amin Chamani, Mohamad Najafi

Research Project

2024

1. Conducting Diagnostic Analysis and Providing Improvement Solutions for Dana Beton Manufacturing Unit

Soheil Zaremotlagh, Seyed Amirasad Fatemi, Mohamad Javad Azinfar - 2024

2023

2. Quick troubleshooting and providing solutions to improve Armaghane Zaris stone production unit

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar - 2023

3. Slope stability analysis in Sefidabe open pit antimony mine

Mohamad Javad Azinfar, Seyed Amirasad Fatemi, Soheil Zaremotlagh - 2023

2021

4. Assessment of closed corporation located in industrial areas of Sistan and Baluchistan province

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar - 2021

2020

5. Determining the exploitation front direction in dimension stone mining for optimal extraction of blo

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar - 2020

2018

2010

6. Seismic risk analysis and preparation of Seismic response spectrum of Ghayen city

Seyed Amirasad Fatemi - 2010

2009

7. Identification of active faults and Geotechnical and seismic micro zoning of Ghayen city in south Kh

Seyed Amirasad Fatemi - 2009

2008

8. Seismic risk analysis and preparation of Seismic response spectrum of Nehbandan city

Seyed Amirasad Fatemi - 2008

2007

9. Identification of active faults and Geotechnical and seismic micro zoning of Nehbandan city in south

Seyed Amirasad Fatemi - 2007